

# Flood Warning Systems

**Client:-** Edinburgh City Council

**Project:-** Flood and trash screen monitoring

## Background

Hydro-Logic was contracted by City of Edinburgh Council in 2010 to supply and install water level monitoring and flood warning systems at 8 key river sites and one reservoir across the City. All the monitoring sites were at locations where flooding has been a recurring problem over several years.

## Tasks and deliverables

The objective was to deliver vital and timely alarms messages of rising levels to warn of potential flooding and allow time for defences to be deployed. Hydro-Logic's Isodaq telemetry systems include web-based data display systems which are easy-to-use with little training, whilst the field-based instrumentation requires little routine maintenance. The new system records river level at regular intervals e.g 5 or 15 mins and the data is captured via GPRS using Isodaq's telemetry server which is accessed via the internet from any PC, therefore enabling managers to have access to the latest data, whether they are at home or in the office.

## Benefits and outcomes

Two culvert screens are continually monitored for blockage and text message alerts are sent when trigger levels are reached. One of the most problematic sites also has a camera installed to provide visual confirmation of the extent of the blockage. The overall system provides standby teams with live information and allows resources to be targeted which has improved efficiency, reduced flood risk and provided a reduction in operational costs.

